

Federal Government Markets

John Frank
Vice President
INPUT



Environmental Issues for Information Services

- Transition from data orientation to information orientation
- Changing acquisition methods
- Implications of standards
- Shakeout of markets
- Price versus technology

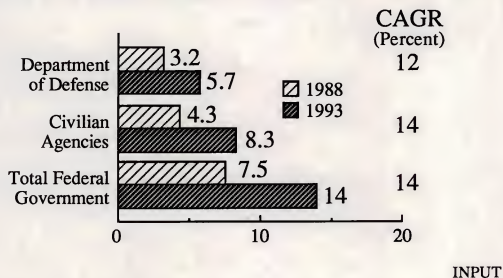
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DoD versus Civilian Sectors, 1988-1993

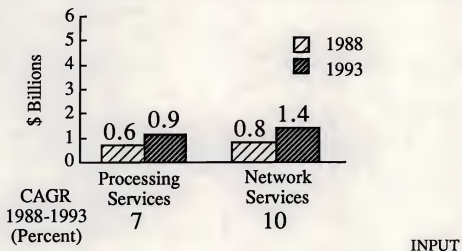


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Federal Government Information Services Markets by Delivery Mode, 1988-1993

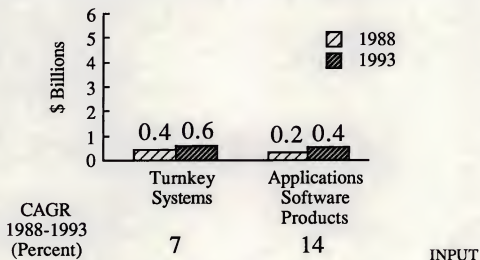


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Federal Government Information Services Markets by Delivery Mode, 1988-1993

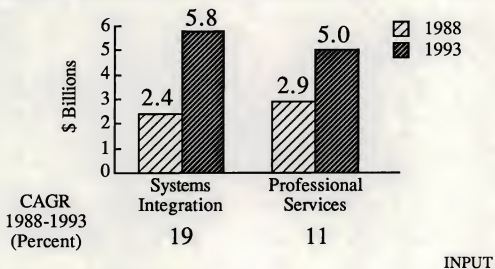


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Federal Government Information Services Markets by Delivery Mode, 1988-1993



NOTES:

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New Processing Applications

Applications	Ranked by Level of Demand
Data base with network	1
Public access data bases	2
Specialized software	3
Modeling	4

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NOTES:

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New Processing Applications

Applications	Ranked by Level of Demand
IDMS	5
Administrative	6
Architectural Design	7
Resource Utilization	8

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Ranking of Top Federal Processing Services Vendors

Company	Rank*
CSC	1
Boeing	2
CDC	3
McDonnell Douglas/ Tymshare	4

* Based on 1988 annual revenues

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Ranking of Top Federal Processing Services Vendors

Company	Rank*
MMDS	5
GE Information Systems	6
AMS	7

* Based on 1988 annual revenues

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NOTES:

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Ranking of Top Federal Processing Services Vendors

Company	Rank*
Comnet	8
DRI	9
ITT Dialcom	10

* Based on 1988 annual revenues

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NOTES:

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Network Applications and Technologies

Application/Technology	Rank*
Information Management	1
Telecommunications	2
Financial and Administrative	3

* Rank based on frequency of mention by industry respondents.

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Network Applications and Technologies

Application/Technology	Rank*
Local-Area Networks	4
Secure Networks	5
Electronic Services	6

* Rank based on frequency of mention by industry respondents.

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Ranking of Top Federal Network Services Vendors

Company	Rank*
AT&T	1
Boeing	2
Contel	3

* Based on 1988 annual revenues

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Ranking of Top Federal Network Services Vendors

Company	Rank*
Bell Atlantic	4
General Electric	5
U.S. Transmission Systems	6

* Based on 1988 annual revenues

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Ranking of Top Federal Network Services Vendors

Company	Rank*
U.S. West	7
GTE	8
Foreign Carriers Communications	9
Southwestern Bell	10
* Based on 1988 annual revenues	INPUT

NOTES:

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Federal Turnkey System Initiatives by Percent Annual Funding

Type	Funding (%)
Data collection	31
CAD/CAE (multiple applications)	12
CIM	11
Graphics	9
CAE	7

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Federal Turnkey System Initiatives by Percent Annual Funding

Type	Funding (Percent)
Records Management	7
CAD	6
Personnel	5
Library	1
Publishing	1

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Ranking of Top Federal Turnkey Systems Vendors

Company	Rank*
Federal Data Corporation	1
C3, Inc.	2
Computervision	3
Prime	4
Intergraph, Inc.	5

* Based on 1988 annual revenues

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NOTES:

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Ranking of Top Federal Turnkey Systems Vendors

Company	Rank*
Computer Consoles	6
Gould	7
Harris	8
Tektronix	9
Triad	10

* Based on 1988 annual revenues

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NOTES:

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Federal Applications Software Requirements

- Voice-data integration
- Improved end-user support applications
- Increased software product applications

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Federal Applications Software Requirements

- Relational data bases
- Departmental information processing
- Decision support systems

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Ranking of Top Federal Applications Software Vendors

Company	Rank*
Computer Associates	1
Sterling Software	2
Computer Corporation of America	3

* Based on 1988 annual revenues

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Ranking of Top Federal Applications Software Vendors

Company	Rank*
Universal Energy Systems	4
Government Technology Services	5
Q S Inc.	6

* Based on 1988 annual revenues

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NOTES:

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Ranking of Top Federal Applications Software Vendors

Company	Rank*
Integrated Software Systems	7
Macheal-Schwendler Corp.	8
Candle Corporation	9
Computer Data Systems, Inc.	10

* Based on 1988 annual revenues

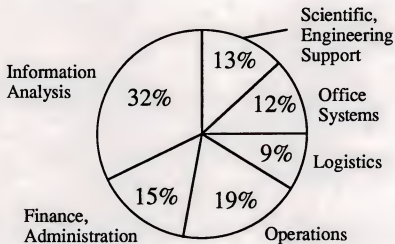
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Federal Systems Integration Applications



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Ranking of Top Federal Systems Integration Vendors

Company	Rank*
IBM	1
Electronic Data Systems	2
Computer Sciences Corporation	3

* Based on 1988 annual revenues

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Ranking of Top Federal Systems Integration Vendors

Company	Rank*
SAIC	4
Grumman Data Services	5
Unisys	6

* Based on 1988 annual revenues

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NOTES:

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Ranking of Top Federal Systems Integration Vendors

Company	Rank*
Boeing Computer Services	7
PRC	8
CDC	9
Andersen Consulting	10

* Based on 1988 annual revenues

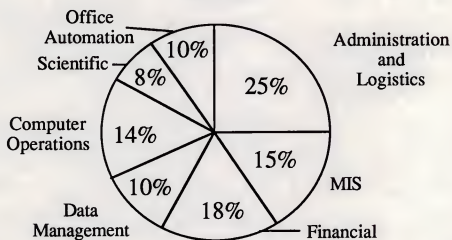
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Federal Professional Services Civil



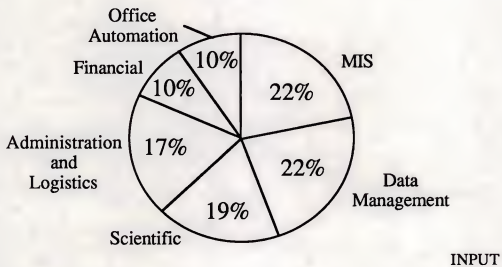
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Federal Professional Services DoD



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Ranking of Top Federal Professional Services Vendors

Company	Rank*
Computer Sciences Corporation	1
Unisys	2
General Motors (Hughes)	3

* Based on 1988 annual revenues

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NOTES:

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Ranking of Top Federal Professional Services Vendors

Company	Rank*
IBM	4
Martin Marietta	5
Honeywell	6
Boeing	7

* Based on 1988 annual revenues

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NOTES:

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Ranking of Top Federal Professional Services Vendors

Company	Rank*
Lockheed (LEMSCO)	8
Planning Research Corporation	9
General Motors (EDS)	10

* Based on 1988 annual revenues

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NOTES:

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Federal Government Sector New Applications

- EDI—networks and services
- Computer-aided acquisition and logistic systems (CALS)
- Automated tax processing

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Federal Government Sector New Applications

- Standardized financial, payroll, and personnel systems
- AI applied to software development and simulation modeling

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Federal Government Sector Impact of Technology

- New optical memory technology
- Open system architecture
- Artificial intelligence/expert systems
- Supercomputer improvements
- Digital voice systems

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Recommended Federal Market Strategies

- Emphasize fixed-price bidding
- Maximize automated tool use
- Penetrate agencies vertically
- Stress customer benefits
- Show specialized expertise

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NOTES:

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John E. Frank
Vice President, Federal Programs
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John E. Frank is a Vice President with INPUT, responsible for the company's Federal Information Systems and Services Program research. With special emphasis on communications and U.S. Federal Government markets, Mr. Frank's 39-year career encompasses a wide range of senior management, marketing, engineering, technology, and business forecasting positions. Most recently he was Director of Planning and Administration for Computer Sciences Corporation's System Group, with responsibility for research and preparation of mid- and long-range market plans and business forecasts.

A registered and professional engineer, Mr. Frank holds a B.S. degree in Industrial Engineering and Management from Fairleigh Dickinson University and has done advanced studies at George Washington University and the University of Michigan.



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Federal Turnkey System Initiatives by Percent Annual Funding

Type	Funding (%)
CAD	6
CAE	7
CAD/CAE (multiple applications)	12

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NOTES:

*Originally arranged
alphabetically*

*Author
Not Ranked
in order
of %?*

*Re-arrange by
%*

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Federal Turnkey System Initiatives by Percent Annual Funding

Type	Funding (Percent)
CIM	11
Data collection	31
Graphics	9

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FEDERAL TURNKEY SYSTEM INITIATIVES
BY PERCENT ANNUAL FUNDING

TYPE	FUNDING PERCENT	TYPE	FUNDING PERCENT
CAD	6	Graphics	9
CAE	7	Library	1
CAD/CAE (Multiple Applications)	12	Personnel	5
CIM	11	Publishing	1
Data Collection	31	Records Management	7

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Ranking of Top Federal Turnkey Systems Vendors

Company	Rank*
Federal Data Corporation	1
C3, Inc.	2
Computervision	3
Prime	4
Intergraph, Inc.	5

* Based on 1987 annual revenues



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Ranking of Top Federal Professional Services Vendors

Company	Rank*
Computer Sciences Corporation	1
Unisys	2 ↓
General Motors (Hughes)	3 ↓

* Based on 1987 annual revenues

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1988?

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Ranking of Top Federal Applications Software Vendors

Company	Rank*
Computer Associates	1
Sterling Software	2
Computer Corporation of America	3

* Based on 1987 annual revenues

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DATE: 3-28-89

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FEDERAL GOVERNMENT
MARKETS

JOHN FRANK
VICE PRESIDENT
INPUT

MSEM-JE-1

(MAPS SEMINAR
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EXHIBIT I-3

*ENVIRONMENTAL ISSUES FOR
INFORMATION SERVICES*

- Transition from Data Orientation to Information Orientation
- Changing Acquisition Methods
- Implications of Standards
- Shakeout of Markets
- Price versus Technology

For several years the government has been transitioning from merely processing data to becoming more information oriented. The federal agencies need to be able to readily access, exchange, and store the enormous collection of information that is essential to their operations and to the public. Another evolutionary process in the government is its method of acquiring information systems and services. The emphasis on cost and risk containment has caused a migration to fixed-price contracts and closer scrutiny of procurements.

III-FG-4

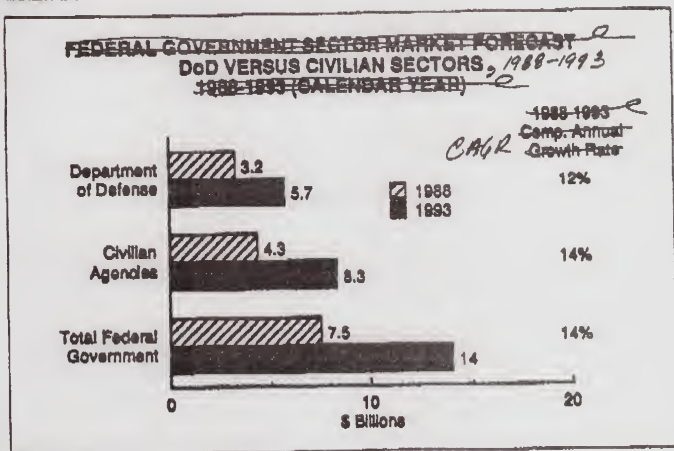
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EXHIBIT N-1



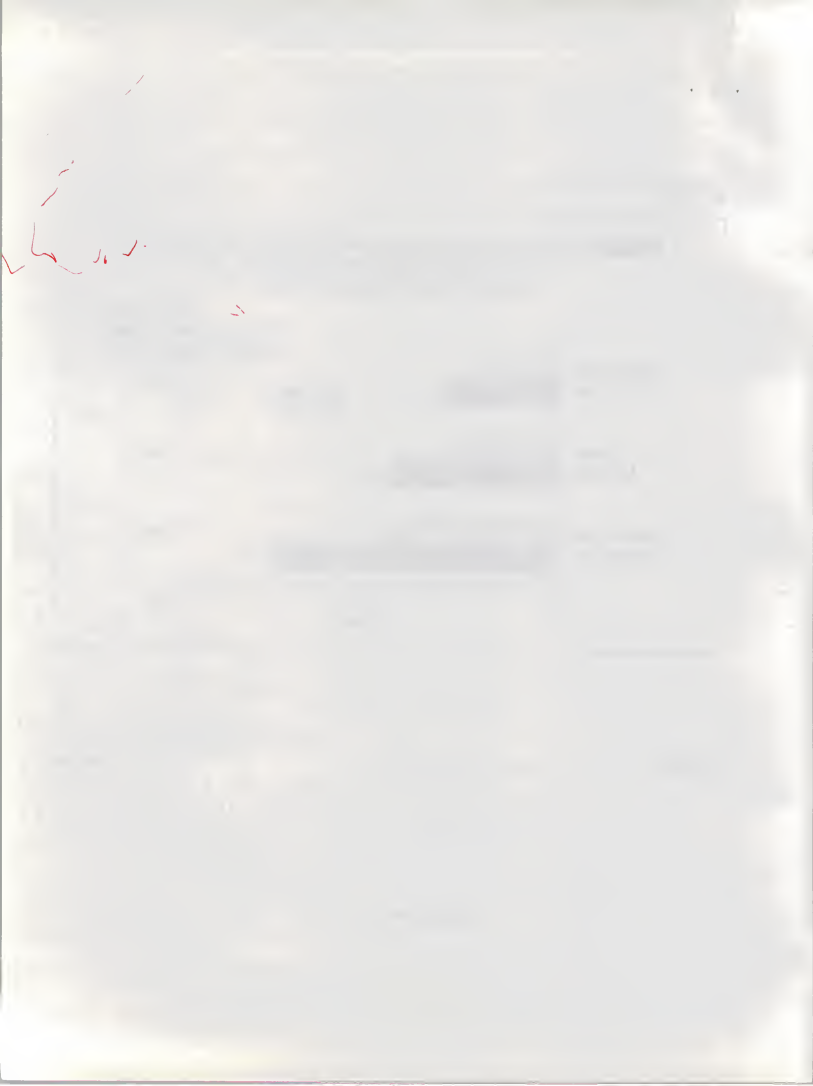
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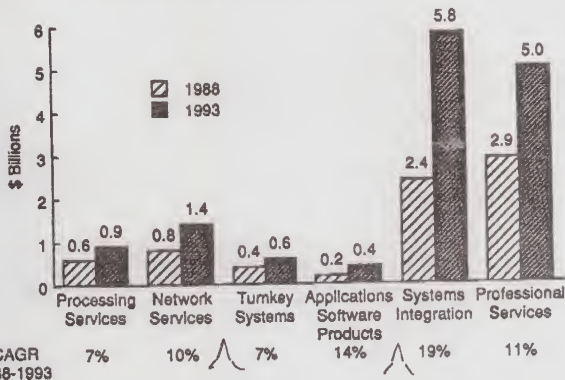
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FEDERAL GOVERNMENT INFORMATION SERVICES MARKETS BY DELIVERY MODE, 1988-1993



*(If this must be cut up
 to fit - cut at 1 ft)*



NEW PROCESSING APPLICATIONS

APPLICATIONS	RANKED BY LEVEL OF DEMAND
Data Base with Network	1
Public Access Data Bases	2
Model Applications	4
Specialized Software	3
Modeling	4
IDMS	5
Administrative	6
Architectural Design	7
Resource Utilization	8
Model, Process Modeling	

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FEDERAL GOVERNMENT SECTOR

INPUT

EXHIBIT III-3

**RANKING OF TOP FEDERAL
PROCESSING SERVICES VENDORS**

Company	Rank*
CSC	1
Boeing	2
CDC	3
McDonnell Douglas/Tymshare	4
MMDS	5
GE Information Systems	6
AMS	7
Comnet	8
DRI	9
ITT Dialcom	10

* Based on 1987 annual revenues

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FEDERAL GOVERNMENT SECTOR

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EXHIBIT III-1

***NETWORK ~~NEW~~ APPLICATIONS
AND TECHNOLOGIES***

Application/Technology	Rank*
Information Management	1
Telecommunications	2
Financial and Administrative	3
Local-Area Networks	4
Secure Networks	5
Electronic Services	6

* Rank based on frequency of mention by industry respondents.

MEM-JF-7



EXHIBIT III-4

**RANKING OF TOP FEDERAL
NETWORK SERVICES VENDORS**

Company	Rank*
AT&T	1
Boeing	2
Contel	3
Bell Atlantic	4
General Electric	5
U.S. Transmission Systems	6
U.S. West	7
GTE	8
Foreign Carriers Communications	9
Southwestern Bell	10

* Based on 1987 revenues

INPUT expects AT&T to continue to dominate the network services market. However, the other shares are expected to change following the award of FTS 2000. The winners in this contract will provide the media and support for both network services and electronic information services.

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FEDERAL TURNKEY SYSTEM INITIATIVES
BY PERCENT ANNUAL FUNDING

TYPE	FUNDING PERCENT	TYPE	FUNDING PERCENT
CAD	6	Graphics	9
CAE	7	Library	1
CAD/CAE (Multiple Applications)	12	Personnel	15
CIM	11	Publishing	1
Data Collection	31	Records Management	7

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EXHIBIT III-5

**RANKING OF TOP FEDERAL
TURNKEY SYSTEMS VENDORS**

Company	Rank*
Federal Data Corporation	1
C3, Inc.	2
Computervision	3
Prime	4
Intergraph, Inc.	5
Computer Consoles	6
Gould	7
Harris	8
Tektronix	9
Triad	10

* Based on 1987 revenues

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EXHIBIT IV-7

FEDERAL APPLICATIONS SOFTWARE
REQUIREMENTS

- Voice-Data Integration
- Improved End-User Support *Applications*
- Increased Software Product Applications
- Relational Data Bases
- Departmental Information Processing
- ~~Departmental Information~~
- Decision Support Systems

Improved, user-friendly data processing resources are key objectives of most current systems projects. A primary objective is improved data base availability, with associated protective measures in both hardware and software that respond to end-user needs. Vendors to the federal market are becoming more aware of the government user's need to readily access data and distribute information among agency sites.

GAO, GSA, and NBS are pressing agencies to employ off-the-shelf or readily adaptable software products for a wide range of government applications that closely resemble commercial processes. Objectives include:

MSEA-JF-11



EXHIBIT III-6

**RANKING OF TOP FEDERAL
APPLICATIONS SOFTWARE VENDORS**

Company	Rank*
Computer Associates	1
Sterling Software	2
Computer Corporation of America	3
Universal Energy Systems	4
Government Technology Services	5
Q S Inc.	6
Integrated Software Systems	7
Macheal-Schwendler Corp.	8
Candle Corporation	9
Computer Data Systems, Inc.	10

* Based on 1987 revenues

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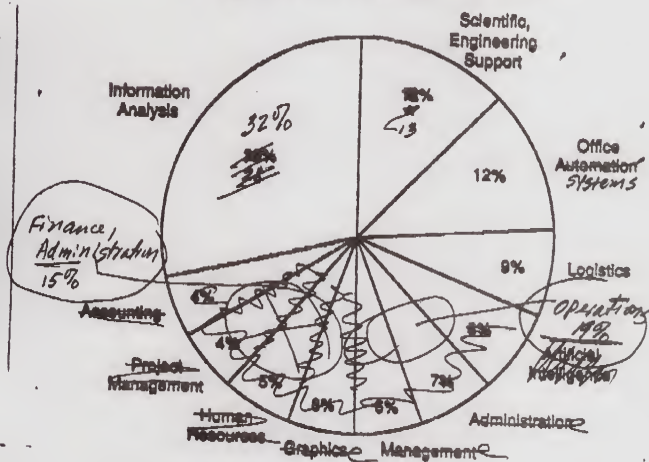
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FEDERAL SYSTEMS INTEGRATION MARKET APPLICATIONS



✓ Simplify, too many categories

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EXHIBIT III-B

RANKING OF TOP FEDERAL SYSTEMS INTEGRATION VENDORS

Company	Rank*
Electronic Data Systems	2 ✓
Computer Sciences Corporation	3 ✓
IBM	1 2 ✓
Unisys	4 6
PRC	5 8
SAIC	4
MIDS	4
Grumman Data Services	5
Federal Data Corporation	6
CDC	9
TRW	8
Anderson Consulting	10
Digital Equipment Corporation	11
Boeing Computer Services	10 7

* Based on 1987 revenues

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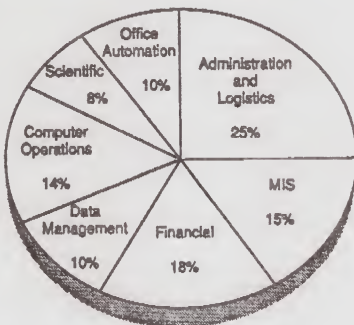
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IV - 7

**FEDERAL GOVERNMENT PROFESSIONAL SERVICES
APPLICATION AREAS,
CIVIL AGENCIES**



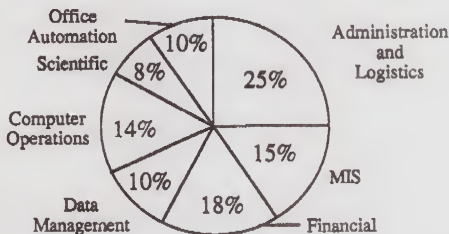
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Federal PROFESSIONAL SERVICES - CIVIL

2

~~Federal Government Professional
Services Application Areas - Civil Agencies~~



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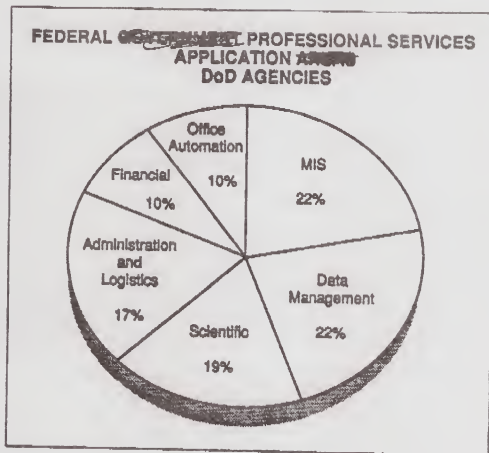
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FEDERAL GOVERNMENT PROFESSIONAL SERVICES MARKET

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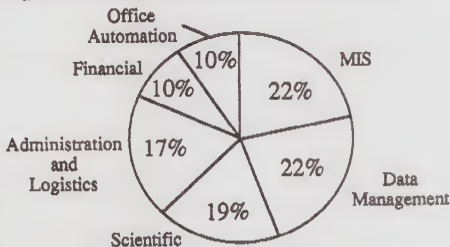
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Federal Professional Services - DOD

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~~Federal Government Professional Services~~
~~Application Areas = DoD Agencies~~



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FEDERAL GOVERNMENT SECTOR

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EXHIBIT III-7

**RANKING OF TOP FEDERAL
PROFESSIONAL SERVICES VENDORS**

Company	Rank*
Computer Sciences Corporation	1
Unisys	2
General Motors (Hughes)	3
IBM	4
Martin Marietta	5
Honeywell	6
Boeing	7
Lockheed (LEMSCO)	8
Planning Research Corporation	9
General Motors (EDS)	10

* Based on 1987 revenues

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FEDERAL GOVERNMENT SECTOR

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EXHIBIT IV-8

**FEDERAL GOVERNMENT SECTOR
NEW APPLICATIONS**

- EDI - Networks and Services
- Computer-Aided Acquisition and Logistic Systems (CALS)
- Automated Tax Processing
- Standardized Financial, Payroll, and Personnel Systems
- AI Applied to Software Development and Simulation Modeling

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EXHIBIT IV-10

**FEDERAL GOVERNMENT SECTOR
IMPACT OF TECHNOLOGY**

- New Optical Memory Technology
- Open System Architecture
- Artificial Intelligence/Expert Systems
- Supercomputer Improvements
- Digital Voice Systems

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FEDERAL MARKET
RECOMMENDED STRATEGIES

- Emphasize Fixed-Price Bidding
- Maximize Automated Tool Use
- Penetrate Agencies Vertically
- Stress Customer Benefits
- Show Specialized Expertise

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(LAST CHART)

